

# ADDITIONS TO THE FLORA OF HIMACHAL PRADESH FROM SIRMAUR DISTRICT<sup>1</sup>

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**Key Words:** New records, flora, Sirmaur.

51 species of flowering plants recorded from Sirmaur district of Himachal Pradesh, hitherto not reported from the State, have been listed along with pertinent information on their habits and habitat.

## INTRODUCTION

Ever since June 1984, the senior author and his students have been engaged in the districtwise systematic survey of the flora of Himachal Pradesh in Northwest Himalaya. Consequently, besides three new introductions to Indian flora (Singh and Sharma 1988, Dhaliwal and Sharma 1995, Sharma and Dhaliwal 1997 a), new records of 28 species from Chamba dist. (Sharma and Singh, in press) and 32 species from Kulu dist. (Sharma and Dhaliwal 1997 b) have been made for Himachal Pradesh. In this communication, we enumerate, along with some pertinent information, 51 species of flowering plants from Sirmaur dist. which have not been reported earlier from Himachal Pradesh. These were gathered during our extensive and intensive field studies of the district during 1991-1994. But for minor modifications, to conform to current circumscription of taxa, the arrangement of the families is after Hooker (1872-1897). Unless otherwise stated, all the specimens cited here are conserved in the Punjabi University Herbarium, Patiala (PUN).

## RANUNCULACEAE

*Clematis buchananiana* DC. var. *vitifolia*  
Wall. ex Hook.f. & Thoms.  
Common in forests, 1500-2500 m.  
**Fl. & Fr.:** August - September.  
Shasholi (Rajgarh), Harsimerjit 17634.

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## ANNONACEAE

*Annona squamosa* Linn.  
Rare, in tropical forests, 1000-1500 m.  
**Fl. & Fr.:** May - September.  
Nahan, Harsimerjit 18302 & 18926.

## MENISPERMACEAE

*Cocculus hirsutus* (Linn.) Diels  
Rare, 500-1000 m.  
**Fl. & Fr.:** February - May.  
Nahan, Sangrah; Harsimerjit 18424 & 18603, 18604.

## BRASSICACEAE

*Malcolmia africana* (Linn.) R.Br.  
Rare in dry areas, 500-700 m.  
**Fl. & Fr.:** February - May.  
Paonta Sahib, Harsimerjit 18334 & 18436.

## CAPPARACEAE

*Capparis zeylanica* Linn.  
Rare among hedges, 500-600 m.  
**Fl. & Fr.:** April-May.  
Paonta Sahib, Harsimerjit 17622.

## CARYOPHYLLACEAE

*Spergula fallax* (Lowe) Krause  
Common weed of cultivation, fallow fields and moist wasteland, 400-1100 m.  
**Fl. & Fr.:** January-March.  
Nahan, Harsimerjit 18432.

MALVACEAE

*Abutilon persicum* (Burm.f.) Pers.

Common, 400-1500 m.

Fl. & Fr.: March-May.

Kolar (Paonta Sahib), Batapul, Yashwant Nagar; Harsimerjit 18610, 18611, 18704.

*Hibiscus hirtus* Linn.

Rare, 400-600 m.

Fl. & Fr.: August-October.

Paonta Sahib, Harsimerjit 18909.

TILIACEAE

*Corchorus capsularis* Linn.

Rare, 400-600 m.

Fl. & Fr.: August-October.

Kala Amb, Harsimerjit 18310 & 18912.

*C. tridens* Linn.

Common in wasteland, 400-600 m.

Fl. & Fr.: July-October.

Dadahu, Kala Amb, Chandni, Batapul, Dholakuan; Harsimerjit 17603 & 18913, 17609, 18308, 18309, 18914.

OXALIDACEAE

*Biophytum reinwardtii* (Zucc.) Klotz

Sataun, Karki 90047 (BSD).

SAPINDACEAE

*Cardiospermum halicacabum* Linn. var.

*microcarpum* (Kunth) Blume

Common climber, 500-1700 m.

Fl. & Fr.: August-October.

Nahan, Dadahu; Harsimerjit 17654, 18950.

PAPILIONACEAE

*Desmodium pulchellum* (Linn.) Benth.

Common undergrowth in forests, 1000-1800 m.

Fl. & Fr.: August-October.

Nahan, Sainwala, Sarahan; Harsimerjit 18376, 18377, 19571.

*Indigofera tinctoria* Linn.

Common in waste places, 500-1000 m.

Fl. & Fr.: August-November.

Sangrah, Nahan, Renuka, Dholakuan, Paonta Sahib; Harsimerjit 18465 & 18650, 18466, 18657, 18777, 18778.

*Rhynchosia minima* (Linn.) DC. var. *laxiflora* (Camb.) Baker

Common among hedges, 400-600 m.

Fl. & Fr.: July-October.

Paonta Sahib, Harsimerjit 18358.

CAESALPINIACEAE

*Cassia leschenaultiana* DC.

Rare in grassy fields, 800-1500 m.

Fl. & Fr.: August-November.

Nahan, Harsimerjit 19774.

MIMOSACEAE

*Acacia leucophloea* (Roxb.) Willd.

Common, 400-500 m.

Fl. & Fr.: October-December, March-May.

Kala Amb, Harsimerjit 19234.

*Prosopis juliflora* (Sw.) DC.

Common and gregarious on undisturbed ground, 400-700 m.

Fl. & Fr.: March-May.

Sangrah, Sainwala; Harsimerjit 19237, 19547.

LYTHRACEAE

*Rotala mexicana* Cham. & Schlecht.

Rare in marshes and rice fields, 1000-1500 m.

Fl. & Fr.: September-January.

Nahan, Harsimerjit 19190.

CUCURBITACEAE

*Luffa echinata* Roxb. var. *longistyla*  
Clarke  
Occasionally found among hedges, 400-1000 m.  
**Fl. & Fr.:** August-October.  
Renuka, Harsimerjit 19913.

*Momordica balsamina* Linn.  
Rare among hedges or on trees, 400-700 m.  
**Fl. & Fr.:** April-October.  
Renuka, Harsimerjit 19744.

*M. charantia* Linn. var. *muricata* (Willd.)  
Chakravarty  
Rare climber in tropical zone, 400-1000 m.  
**Fl. & Fr.:** July-October.  
Nahan, Moginand (Kala Amb);  
Harsimerjit 19276, 19767.

CACTACEAE

*Nopalaea cochenillifera* (Linn.) Salm-Dyck  
Rare, 400-1000 m.  
**Fl.:** January - May, September - October.  
**Fr.:** December - January.  
Sangrah, Harsimerjit 19238.

*Opuntia monacantha* (Willd.) Haw.  
Common in waste places, 450-1800 m.  
**Fl. & Fr.:** April-October.  
Kala Amb, Harsimerjit 19263.

RUBIACEAE

*Oldenlandia gracilis* (Wall.) Hook.f.  
Sarahan, Vohra 946281 (BSD).

ASTERACEAE

*Chrysanthellum americanum* (Linn.) Vatke  
Common in grassy areas, 400-1500 m.  
**Fl. & Fr.:** August-November.  
Nauradhar, Haripurdhara; Harsimerjit  
19307 & 19390, 19323.

*Sphaeranthus senegalensis* DC.  
Rare in moist grassy fields, 400-1000 m.  
**Fl. & Fr.:** November - May.  
Paonta Sahib, Harsimerjit 19509.

*Vicoa vestita* (Wall. ex DC.) Benth. ex Hook.f.  
Rare, 400-1000 m.  
**Fl. & Fr.:** March-May.  
Nahan, Harsimerjit 19604.

GENTIANACEAE

*Centaurium centaurioides* (Roxb.) Rolla Rao & Hemadri  
Rare in grassy fields, 400-700 m.  
**Fl. & Fr.:** March-May.  
Chandni, Harsimerjit 19035.

SOLANACEAE

*Datura tatula* Linn.  
Occasionally found in wasteland, 500-1000 m.  
**Fl. & Fr.:** August-September.  
Chandni, Renuka; Harsimerjit 18399, 18835.

SCROPHULARIACEAE

*Bacopa procumbens* (Linn.) Greenm.  
Common on sandy river beds, 400-1000 m.  
**Fl. & Fr.:** March-May.  
Sainwala, Bherewala; Harsimerjit 18563 & 19545, 18798.

*Scoparia dulcis* Linn.  
Common, 600-1500 m.  
**Fl. & Fr.:** July - December.  
Paonta Sahib, Harsimerjit 17155.

*Veronica polita* Fries  
Common in moist grassy fields, 400-2000 m.  
**Fl. & Fr.:** December-April.  
Nahan, Harsimerjit 17154.

LAMIACEAE

*Ocimum gratissimum* Linn.

Cultivated, often grows as an escape in wasteland, 500-1000 m.

**Fl. & Fr.:** December-March.

Nahan, Sirmuri Tal; Harsimerjit 18678, 19667.

*Prunella vulgaris* Linn. var. *hispida* Benth.

Common, 1400-3000 m.

**Fl. & Fr.:** March-October.

Nauradhar, Haripurdhar; Harsimerjit 18522, 18584.

*Salvia coccinea* Juss. ex Murr. var. *pseudococcinea* (Juss. ex Murr.) Gray

Common near Nahan cantonment road, 900-1000 m.

**Fl. & Fr.:** August-October.

Nahan, Harsimerjit 18592.

AMARANTHACEAE

*Alternanthera tenella* Colla

Very common, 400-1000 m.

**Fl. & Fr.:** February-April.

Paonta Sahib, Kala Amb; Harsimerjit 19017, 19094.

PHYTOLACCACEAE

*Rivinia humilis* Linn.

Common in hedges, gardens and wasteland, 500-1500 m.

**Fl. & Fr.:** July-November.

Shilai, Harsimerjit 19354.

EUPHORBIACEAE

*Croton bonplandianum* Baill.

Common in waste places, 500-1000 m.

**Fl. & Fr.:** March-November.

Dadahu, Sirmuri Tal, Sundraghat (Sangrah), Kala Amb, Paonta Sahib; Harsimerjit 17129, 18843, 18897, 19112, 19413.

*Euphorbia pilosa* Linn. var. *cognata* Hook.f.

Very common as forest undergrowth especially on way to Churdhar, 2400-2800 m.

**Fl. & Fr.:** June-September.

Churdhar, Nauradhar; Harsimerjit 18686, 19491.

PONTEDERIACEAE

*Eichhornia crassipes* (Mart.) Solms

Occasionally found in ponds, 400-600 m.

**Fl.:** August-November, April-May.

Batapul, Paonta Sahib; Harsimerjit 17363, 19373.

COMMELINACEAE

*Commelina suffruticosa* Blume

Rare in rice fields, 400-1000 m.

**Fl. & Fr.:** July-October.

Paonta Sahib, Harsimerjit 19168.

ARACEAE

*Colocasia esculenta* (Linn.) Schott

Common in marshy places especially near Renuka Lake, 400-1000 m.

**Fl. & Fr.:** August-November.

Renuka, Harsimerjit 19681.

CYPERACEAE

*Cyperus nutans* Vahl var. *eleusinoides* (Kunth) Haines

Common in marshy places and rice fields, 400-1500 m.

**Fl. & Fr.:** July-October.

Paonta Sahib, Harsimerjit 19752.

POACEAE

*Cenchrus setigerus* Vahl

Common in waste places, 500-1000 m.

**Fl. & Fr.:** August-November, March-April.

Nahan, Paonta Sahib; Harsimerjit 19246, 19258.

***Chrysopogon aciculatus* (Retz.) Trin.**

Common as forest undergrowth, 1000-1500 m.

**Fl. & Fr.:** July-November.

Sarahan, Harsimerjit 19400.

***Cyrtococcum patens* (Linn.) A. Camus**

Rare in sandy areas, 400-1500 m.

**Fl. & Fr.:** August-November.

Nahan, Harsimerjit 18858.

***Dinebra retroflexa* (Vahl) Panz.**

Common on dry slopes, 400-1500 m.

**Fl. & Fr.:** August-October.

Nahan, Shilai, Paonta Sahib; Harsimerjit 19247, 19272, 19533.

***Eragrostis ciliaris* (Linn.) R.Br.**

Rare in cultivated fields, 400-1000 m.

**Fl. & Fr.:** March-May.

Paonta Sahib, Harsimerjit 19536.

***E. tenella* (Linn.) P. Beauv. ex Roem. & Schult. var. *insularis* Hubb.**

Common in agricultural fields and lawns, 400-1500 m.

**Fl. & Fr.:** August-October.

Nahan, Shilai; Harsimerjit 16898, 19353.

***Panicum walense* Mez**

Common in sandy localities, 400-1000 m.

**Fl. & Fr.:** August-November.

Sainwala, Nahan; Harsimerjit 18859, 19315.

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